

THE INSECT PEST SURVEY
BULLETIN

Volume 17

Supplement to Number 7

September 15, 1937

BUREAU OF
ENTOMOLOGY AND PLANT QUARANTINE
UNITED STATES
DEPARTMENT OF AGRICULTURE
AND
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Hessian Fly Survey, Harvest-time 1937 United States Bureau of Entomology and Plant Quarantine Cooperating with State entomologists

As shown on the accompanying map, this survey covers the main winter-wheat region of central and eastern United States. Throughout most of this area the hessian fly is now about as scarce as it ever becomes. Weather conditions more or less unfavorable to its activity last fall and again last spring, combined with generally delayed sowing of wheat last fall, have reduced fly populations much below the threatening numbers prevailing in the central part of the winter-wheat belt a year ago.

In Nebraska, Kansas, and Oklahoma infestations at harvest time were extremely light and practically no material damage occurred or is likely to occur this year. Hessian fly populations are also generally low in Iowa, Missouri, northern Illinois, central and northeastern Indiana, Ohio, Kentucky, Tennessee, western and central Pennsylvania, Maryland, Delaware, Virginia, and North Carolina. In these States, however, occasional fields or localities now contain enough infestation to be a possible source of local trouble next fall. A notable feature this year is the unusual abundance of the fly in some northern districts, including northeastern Iowa, southern Wisconsin, and south-central Michigan. Other regions containing moderate-to-severe infestation, in which there is real danger of an outbreak next fall if weather should favor fly activity, are southern Illinois, northwestern and southern Indiana, and southeastern Pennsylvania. The farmers in all these districts should be warned of this danger and advised to observe the safe-sowing dates.

This report is based on the following summarized data, and additional information received from State and Federal entomologists of Iowa and Wisconsin. The field samples used were mostly 50 stems taken on a short circuit into one side of the field.

Area	Fields : sampled : Number	Stems infested		
		Average : Percent	Maximum : Percent	Minimum : Percent
Nebraska:				
Southwestern-----	7	0	0	0
South-central-----	28	0	0	0
Southeastern-----	68	1	22	0
Kansas:				
Northwestern-----	20	0	0	0
North-central-----	35	0	12	0
Northeastern-----	53	2	18	0
South-central-----	39	0	6	0
Southeastern-----	34	2	14	0
Oklahoma:				
North-central-----	27	0	0	0
Northeastern-----	26	0	0	0
Missouri:				
Northwestern-----	28	1	6	0
West-central-----	32	2	14	0
East-central-----	43	5	30	0
Southwestern-----	31	7	40	0
Southeastern-----	26	4	24	0
Illinois:*				
Northwestern-----	45	2	16	0
Central-----	29	4	32	0
East-central-----	30	2	12	0
Southwestern-----	30	11	56	0
Southeastern-----	37	9	48	0
Michigan:				
South-central-----	30	18	52	0
Southwestern (Berrien Co.):	7	4	12	0
Southeastern (Lendwee Co.):	7	2	6	0
Indiana:				
Northwestern-----	73	14	52	0
Northeastern-----	35	5	14	0
Central-----	71	7	28	0
Southwestern-----	64	18	70	0
Southeastern-----	42	19	84	0

*Mostly from survey by State entomologists.

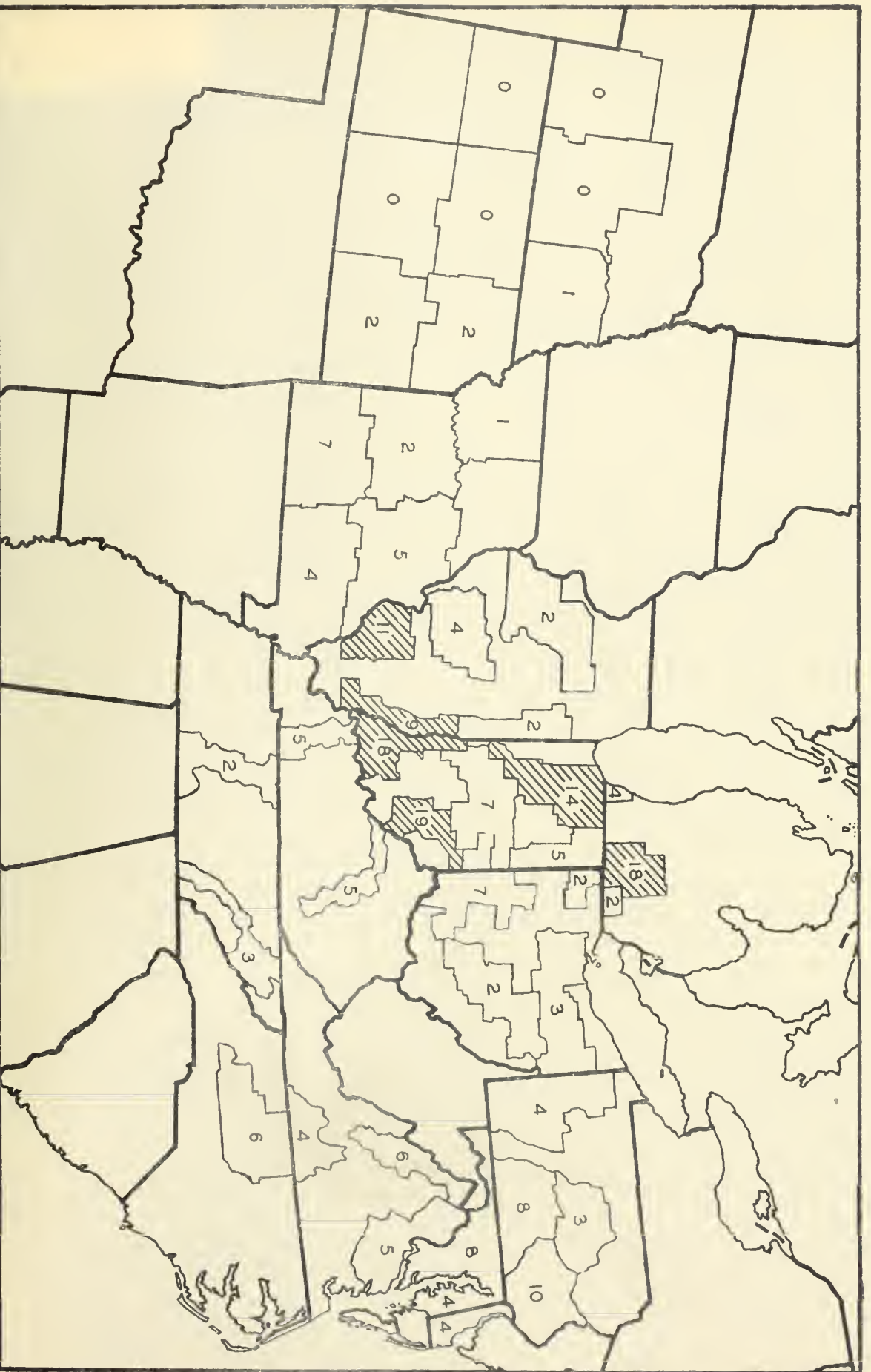
Area	Fields sampled	Stems infested		
		Average	Maximum	Minimum
	Number	Percent	Percent	Percent
Ohio:*				
Northwestern-----	**16	2	-	-
North-central and northeastern: **	130	3	-	-
Southwestern-----	** 90	7	-	-
Southeastern-----	**110	2	-	-
Kentucky:				
Western-----	14	5	26	0
East-central-----	16	5	22	0
Tennessee:				
West-central-----	40	2	32	0
Eastern-----	43	3	16	0
Pennsylvania:				
Western-----	15	4	20	0
North-central-----	20	3	12	0
South-central-----	35	8	30	0
Eastern-----	34	10	68	0
Delaware-----	15	4	21	0
Maryland:				
Central-----	25	8	38	0
Eastern-----	15	4	16	0
Virginia:				
Northwestern-----	20	6	42	0
Northeastern-----	45	5	22	0
South-central-----	15	4	13	0
North Carolina:				
North-central-----	40	6	28	0

*Mostly from survey by State entomologists.

**Approximately.

GENERAL INFORMATION									
NAME	AGE	SEX	RELATIONSHIP	DATE OF BIRTH	DATE OF DEATH	PLACE OF BIRTH	PLACE OF DEATH	CAUSE OF DEATH	REMARKS
1	25	M	Wife	1910	1935	India	India	Smallpox	
2	30	F	Daughter	1915	1940	India	India	Smallpox	
3	35	M	Son	1920	1945	India	India	Smallpox	
4	40	F	Daughter	1925	1950	India	India	Smallpox	
5	45	M	Son	1930	1955	India	India	Smallpox	
6	50	F	Daughter	1935	1960	India	India	Smallpox	
7	55	M	Son	1940	1965	India	India	Smallpox	
8	60	F	Daughter	1945	1970	India	India	Smallpox	
9	65	M	Son	1950	1975	India	India	Smallpox	
10	70	F	Daughter	1955	1980	India	India	Smallpox	
11	75	M	Son	1960	1985	India	India	Smallpox	
12	80	F	Daughter	1965	1990	India	India	Smallpox	
13	85	M	Son	1970	1995	India	India	Smallpox	
14	90	F	Daughter	1975	2000	India	India	Smallpox	
15	95	M	Son	1980	2005	India	India	Smallpox	
16	100	F	Daughter	1985	2010	India	India	Smallpox	
17	105	M	Son	1990	2015	India	India	Smallpox	
18	110	F	Daughter	1995	2020	India	India	Smallpox	
19	115	M	Son	2000	2025	India	India	Smallpox	
20	120	F	Daughter	2005	2030	India	India	Smallpox	

HESSIAN FLY SURVEY MADE AT HARVEST TIME 1937



Numbers indicate percentage of infestation. Crosshatching indicates areas of moderate to severe infestation.

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